

FIG.1

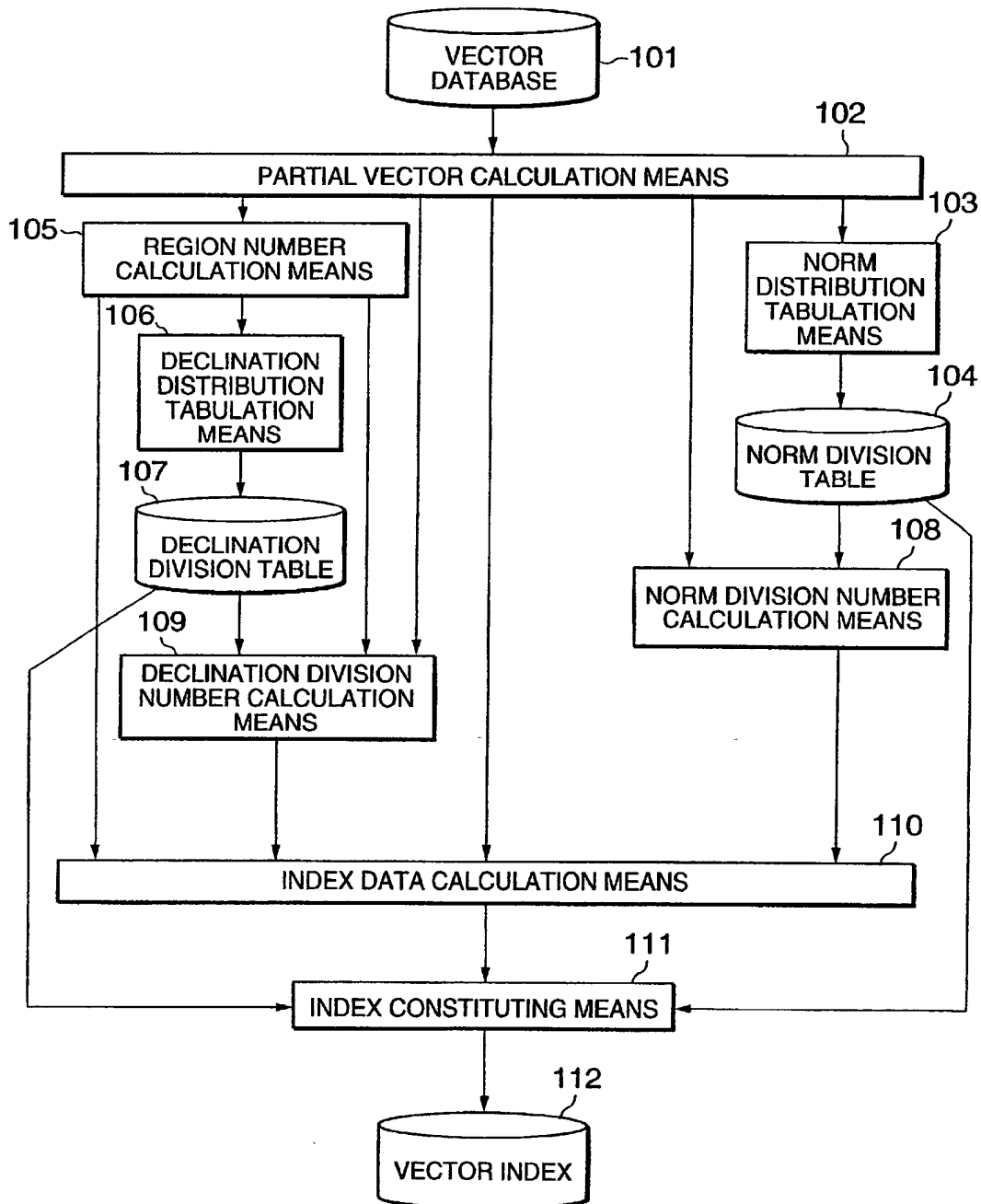


FIG.2

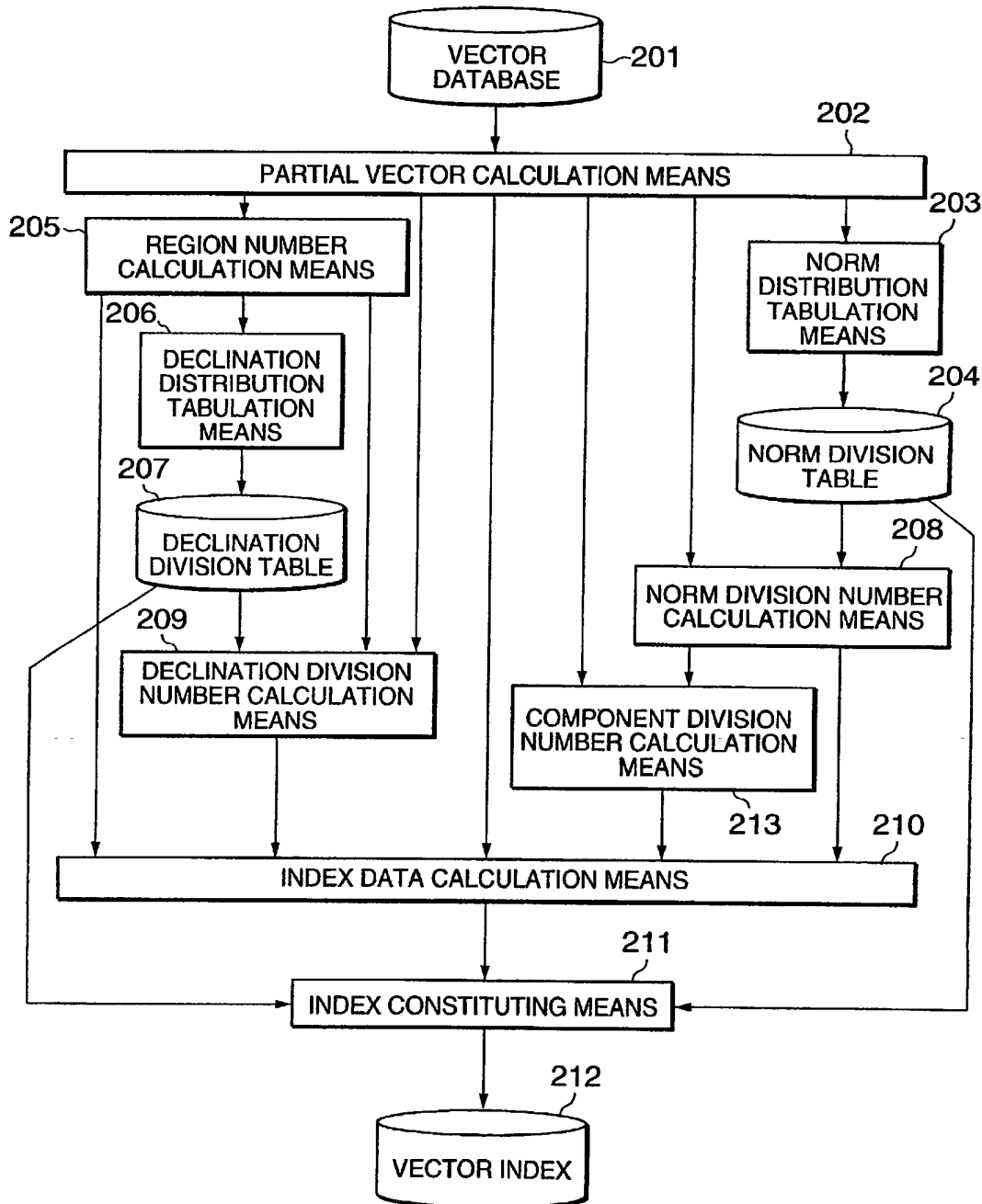


FIG.3

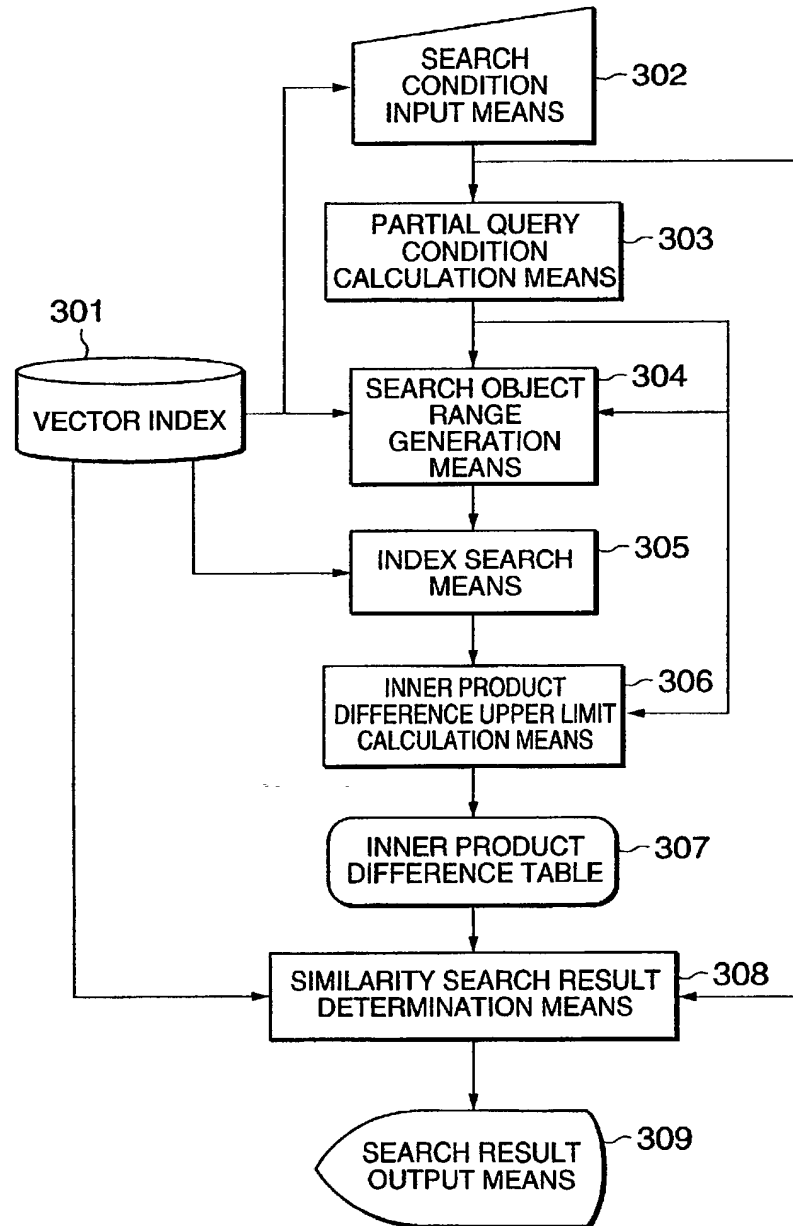


FIG.4

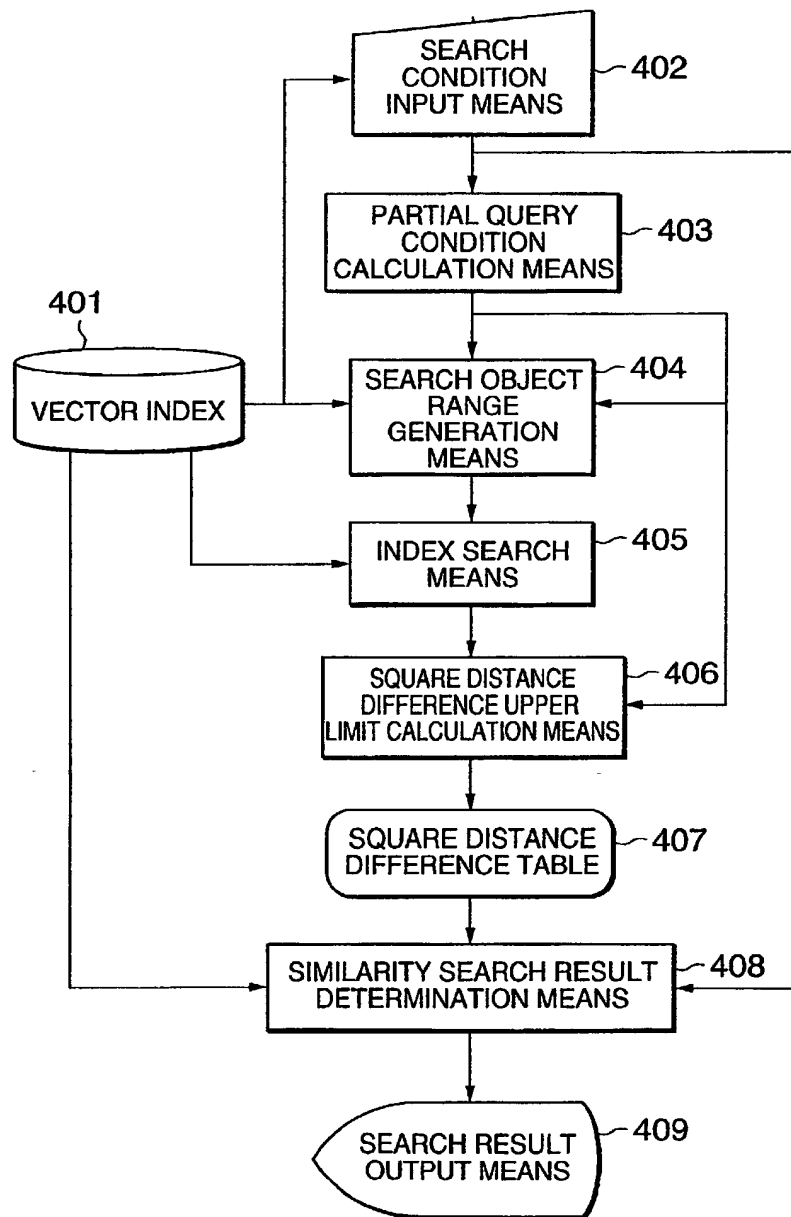


FIG.5A

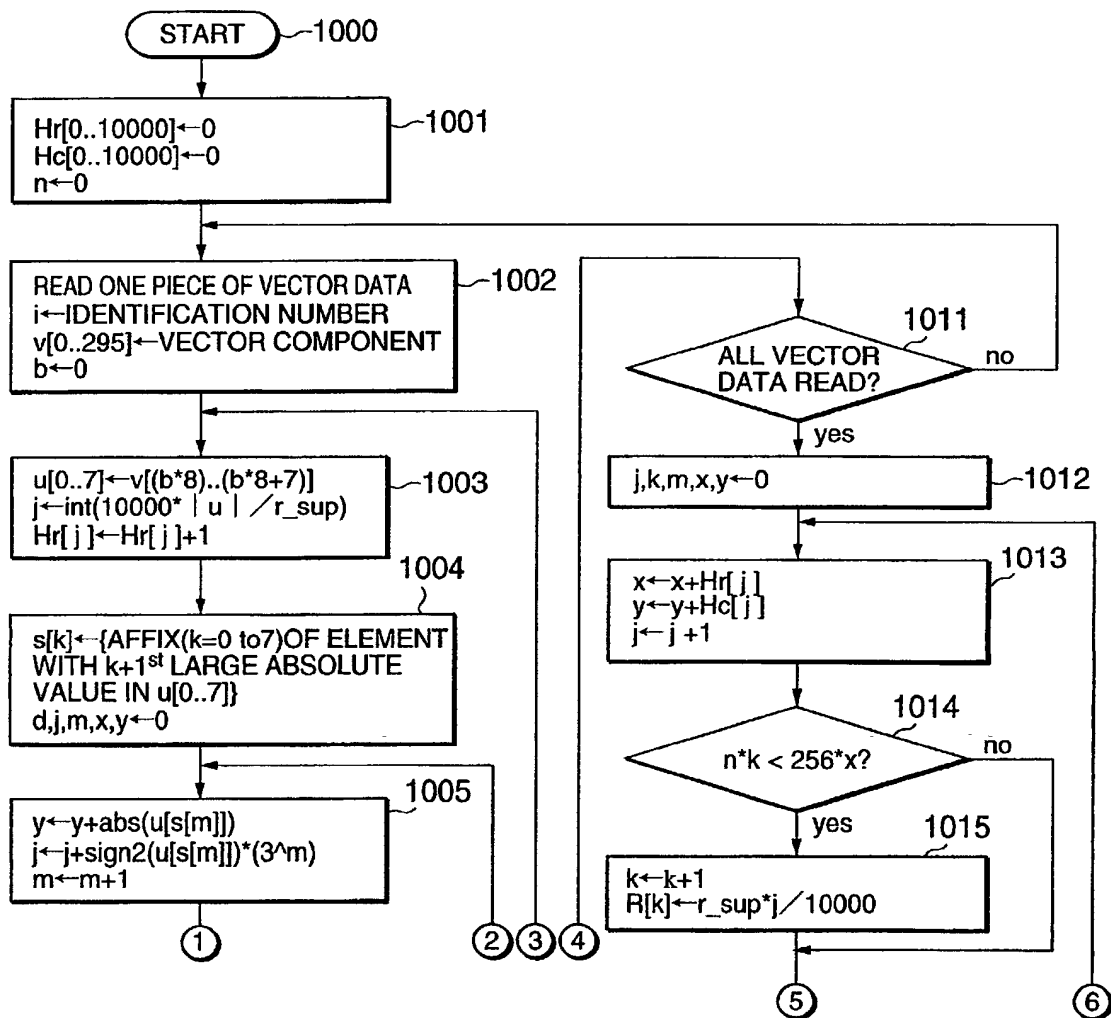


FIG.5B

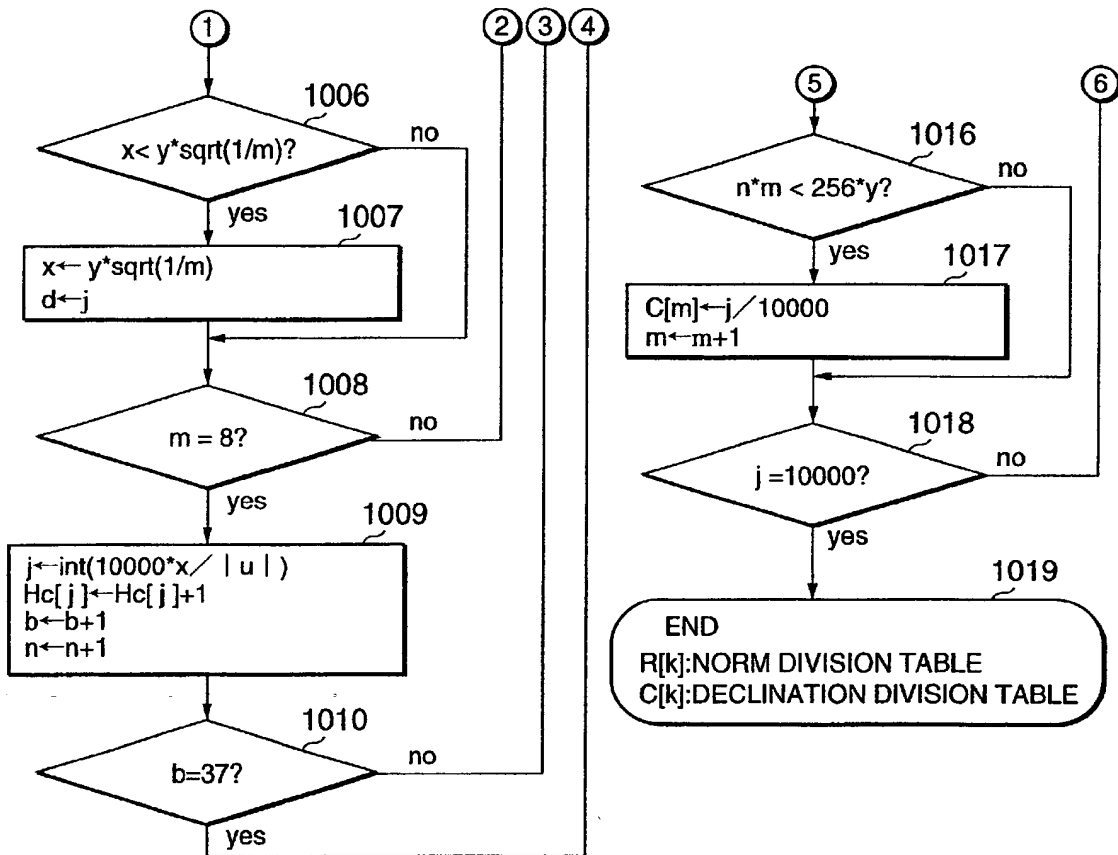


FIG.6A

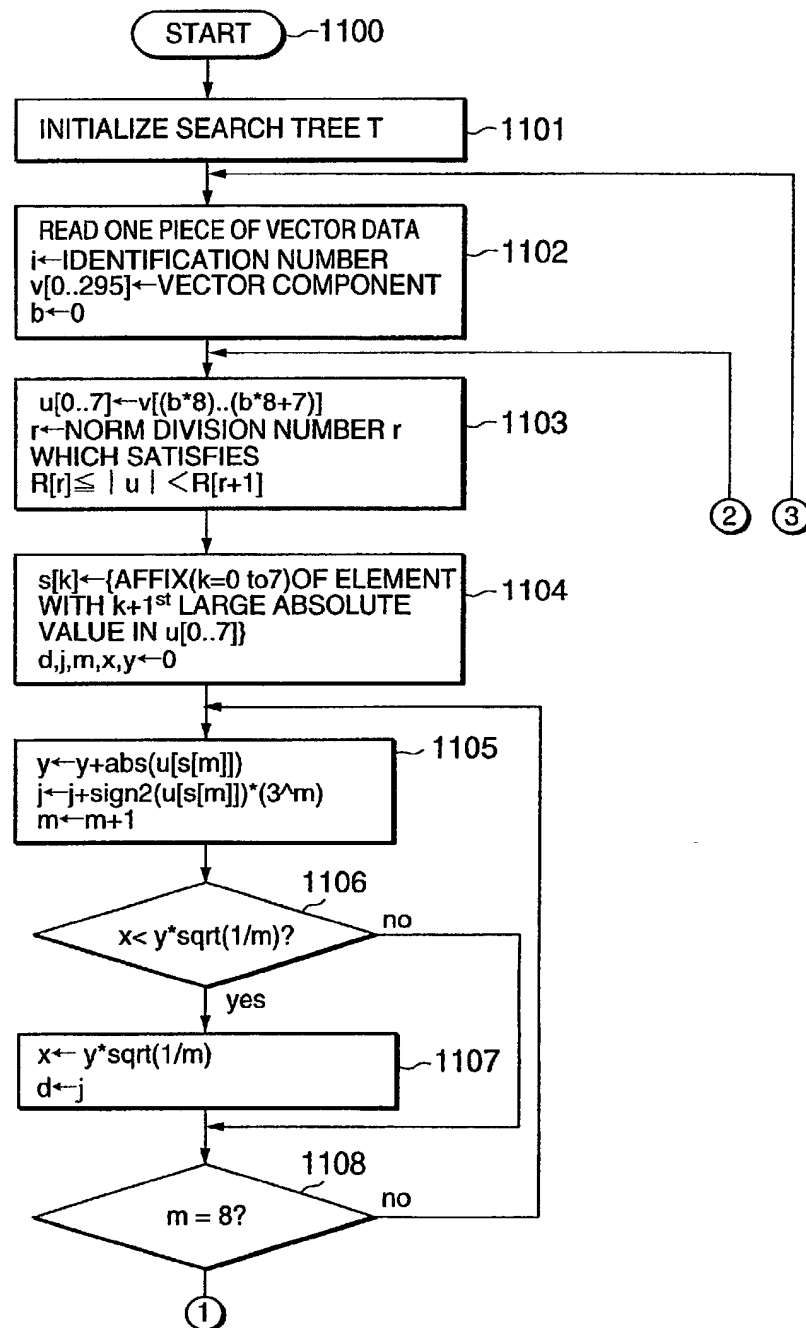


FIG.6B

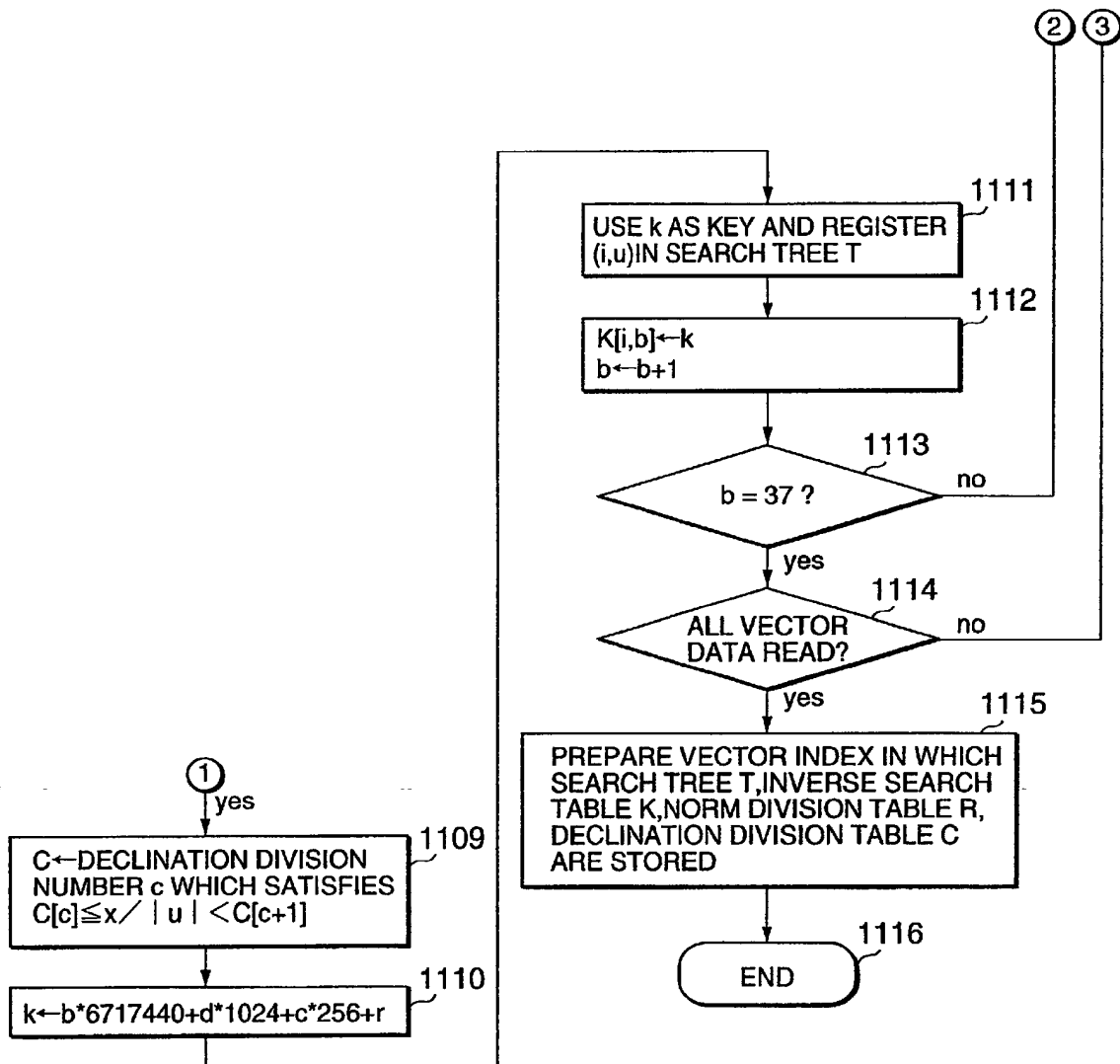




FIG.7A

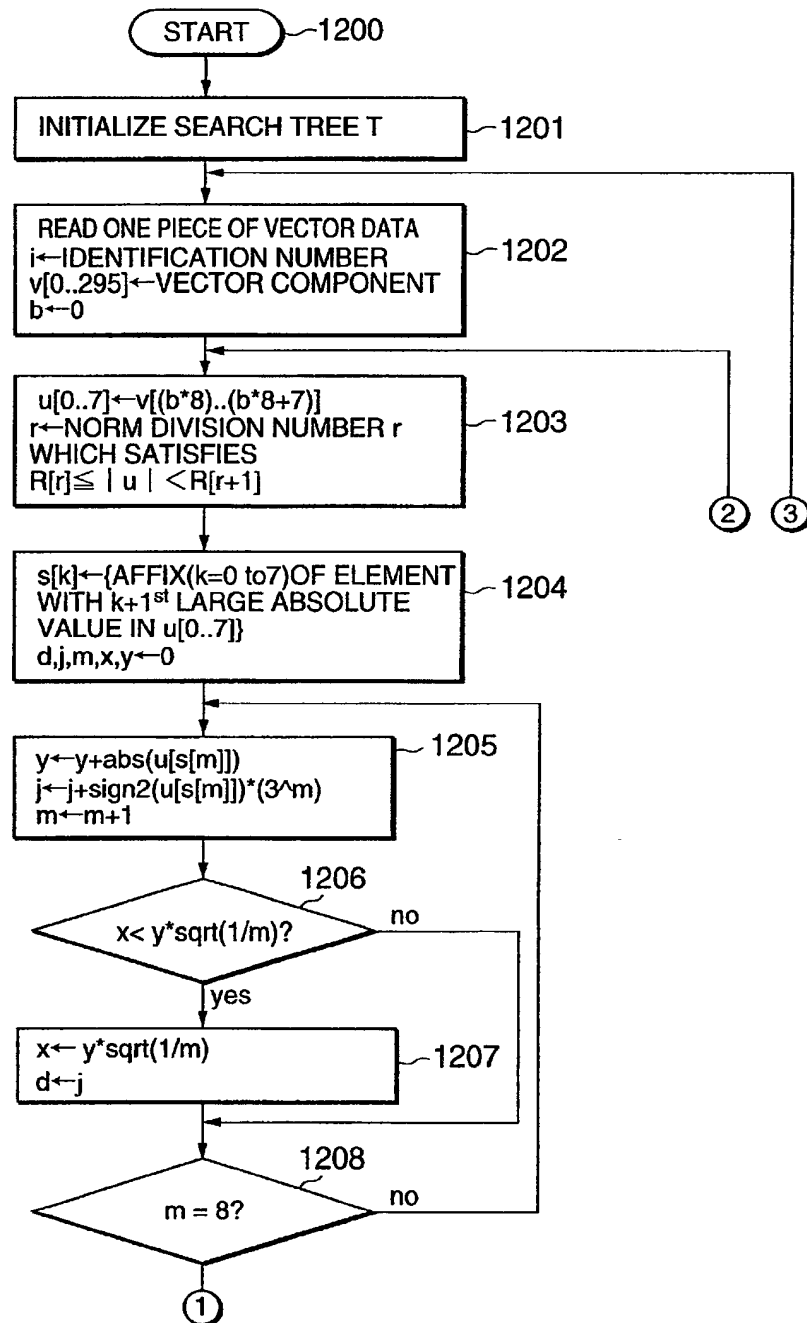


FIG.7B

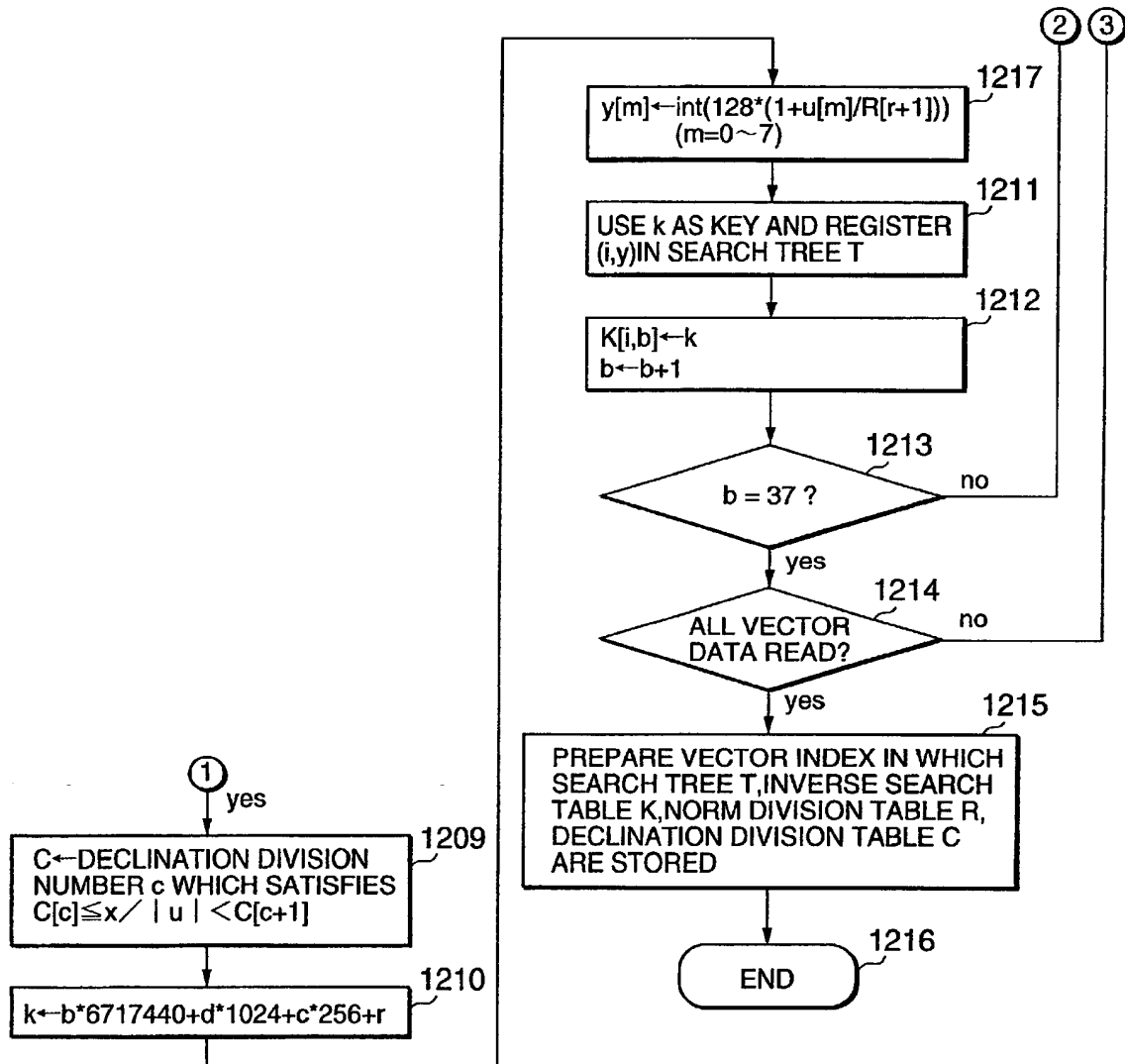
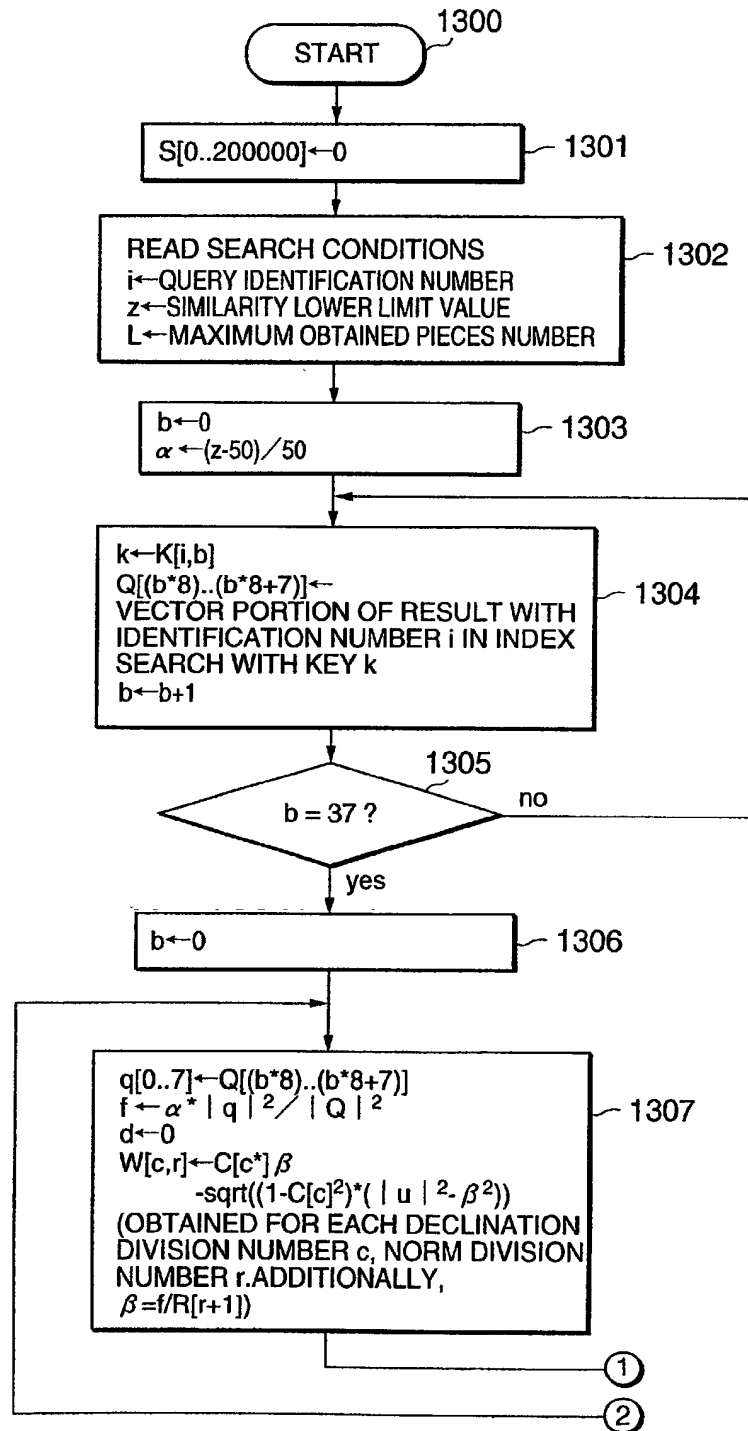


FIG.8A



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FIG.8B

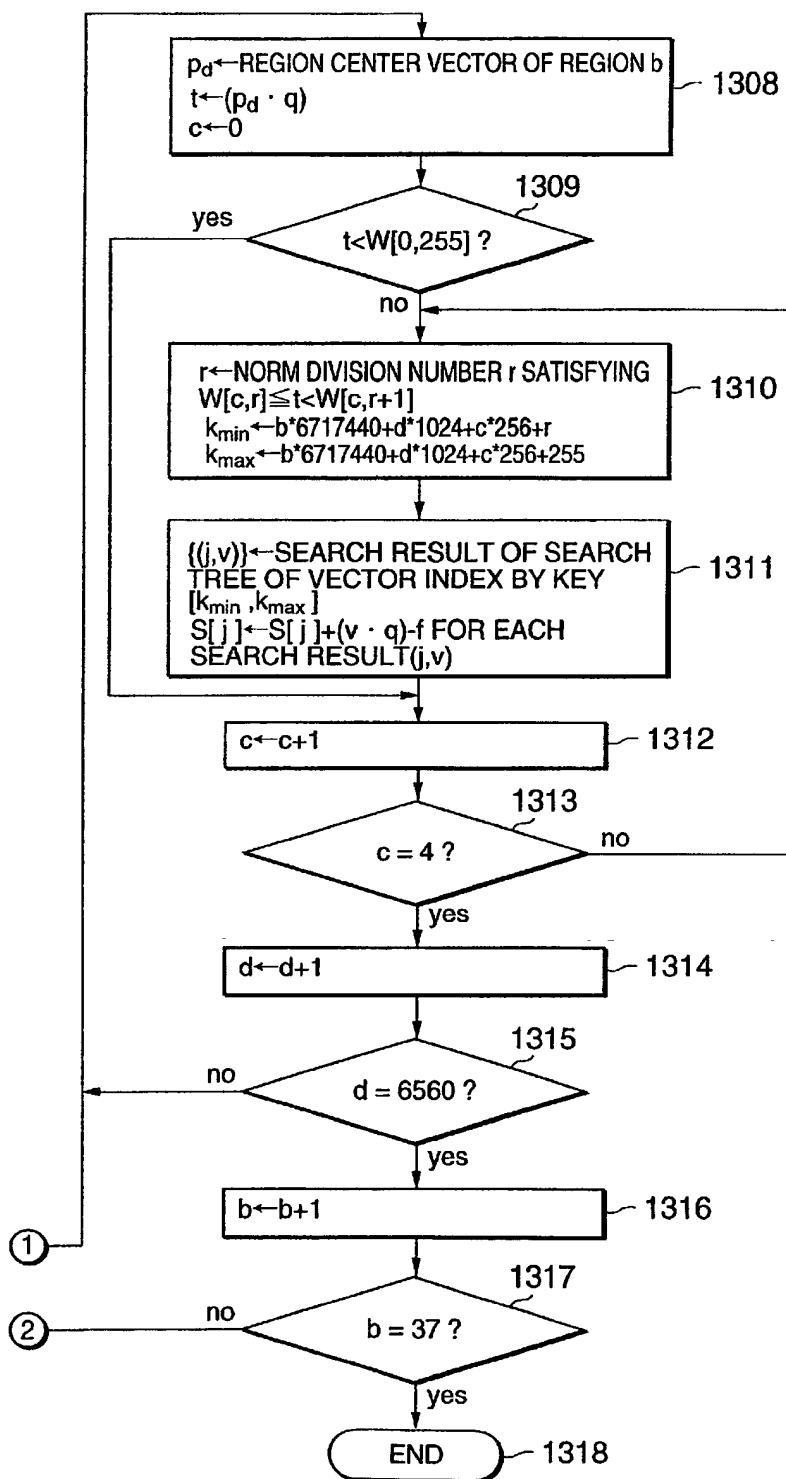


FIG.9

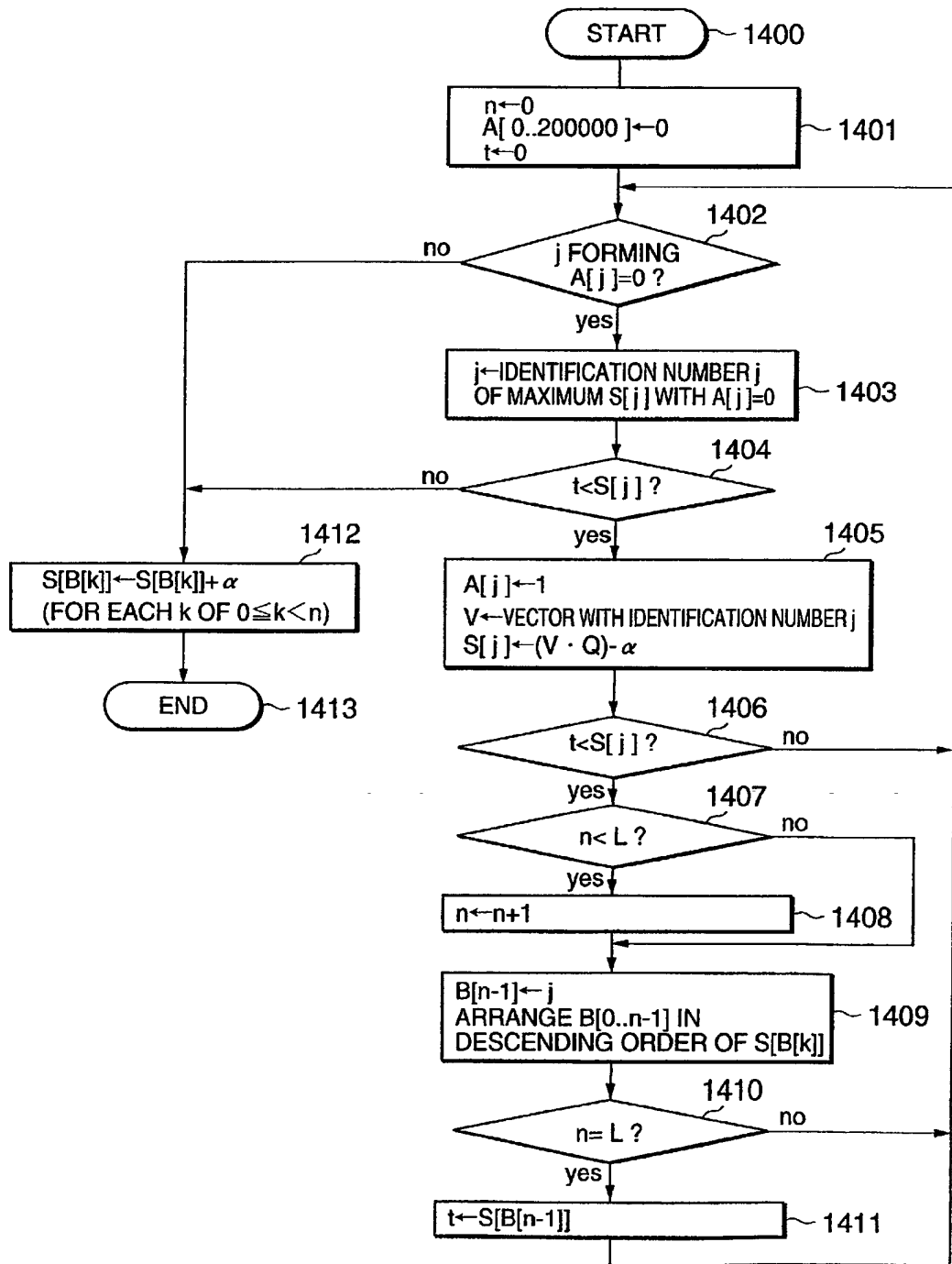


FIG. 10A

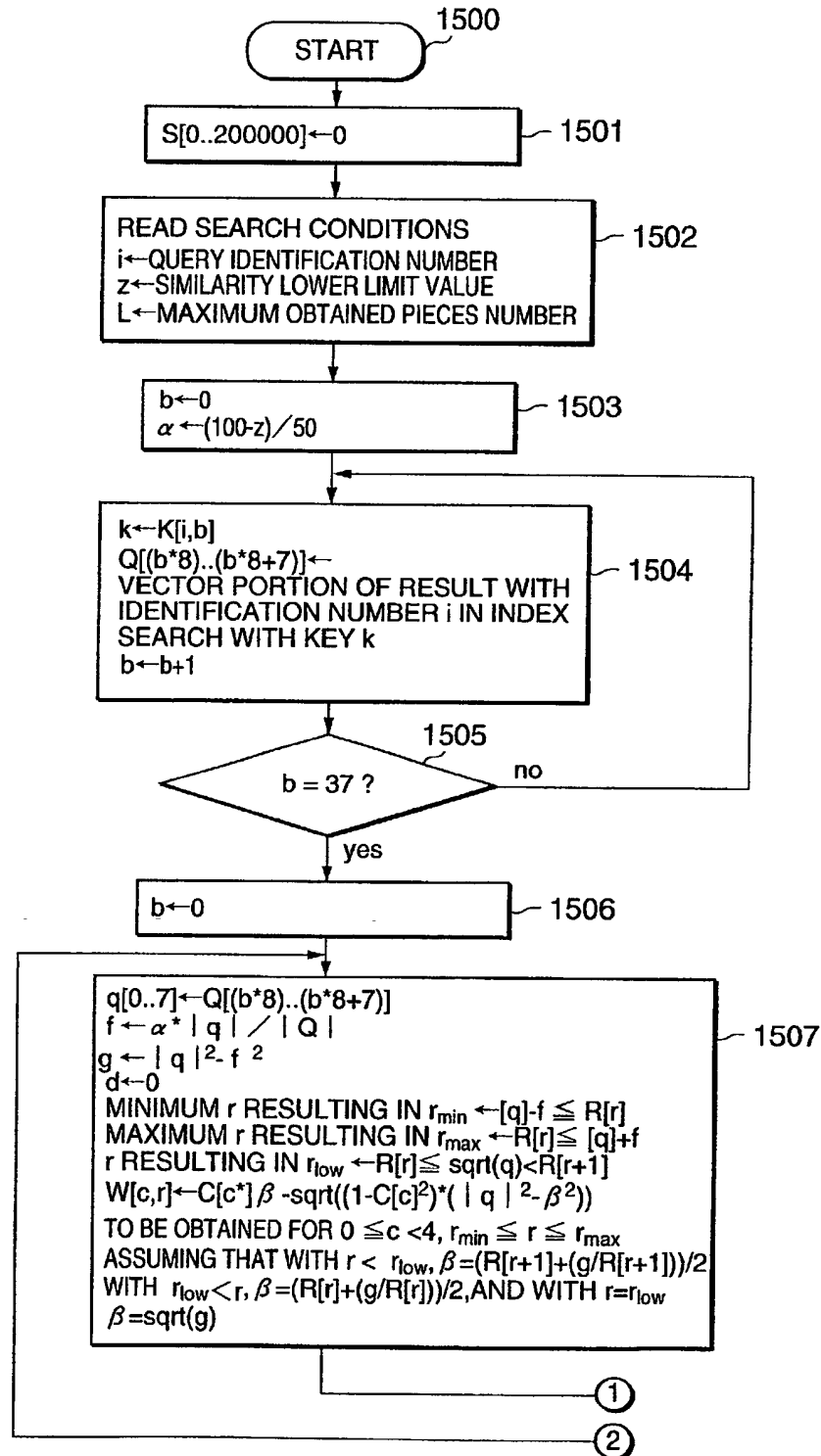


FIG.10B

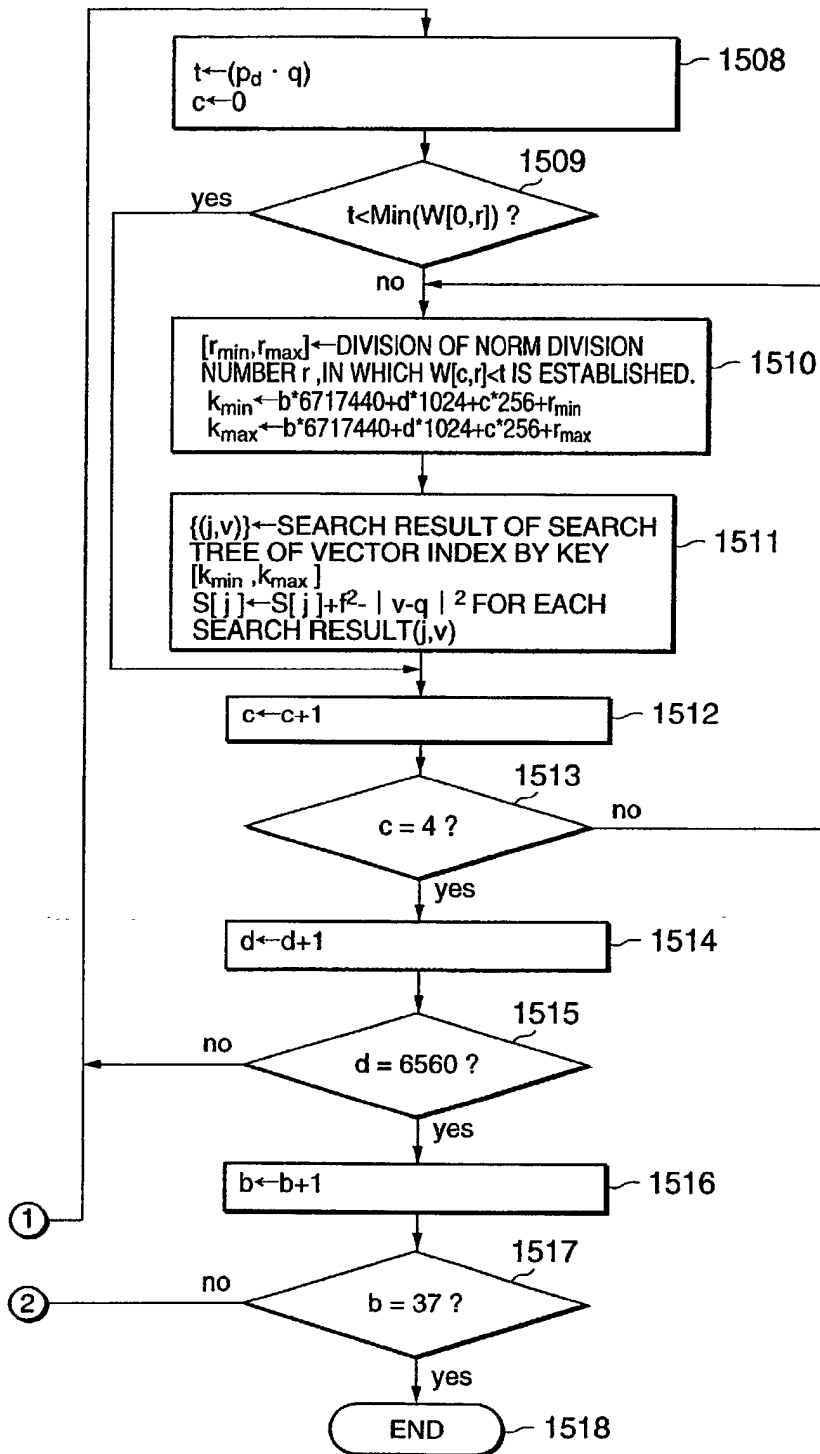


FIG.11A

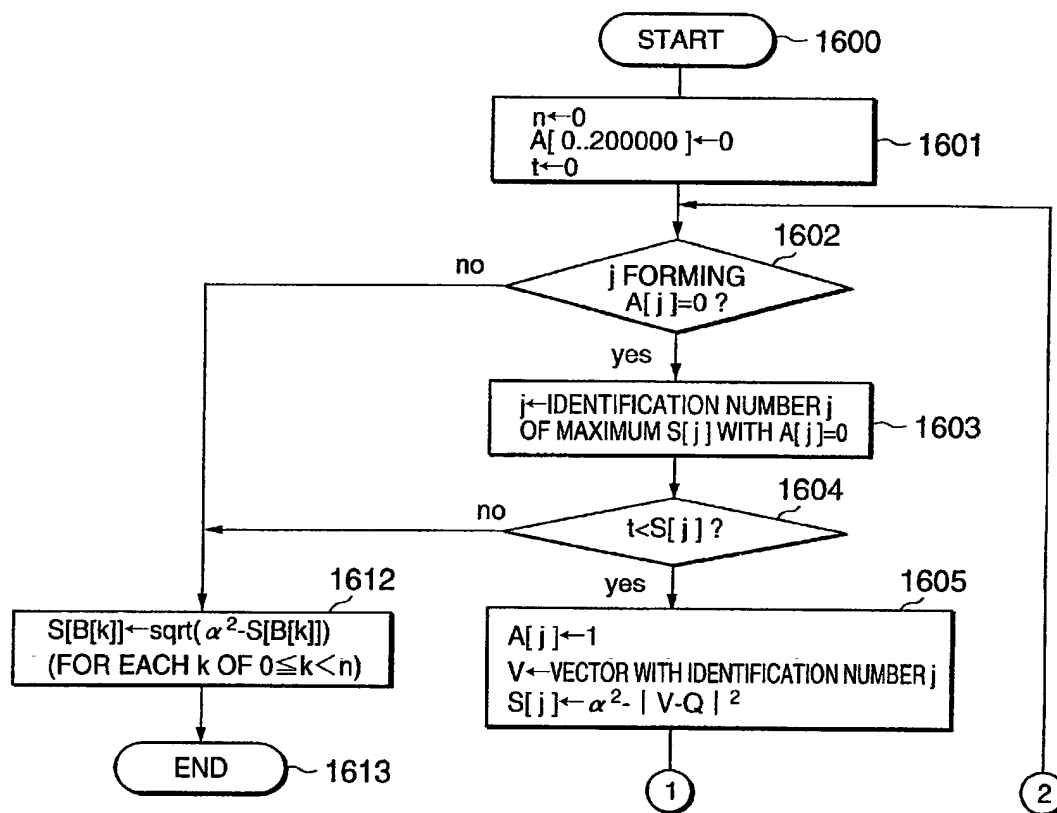
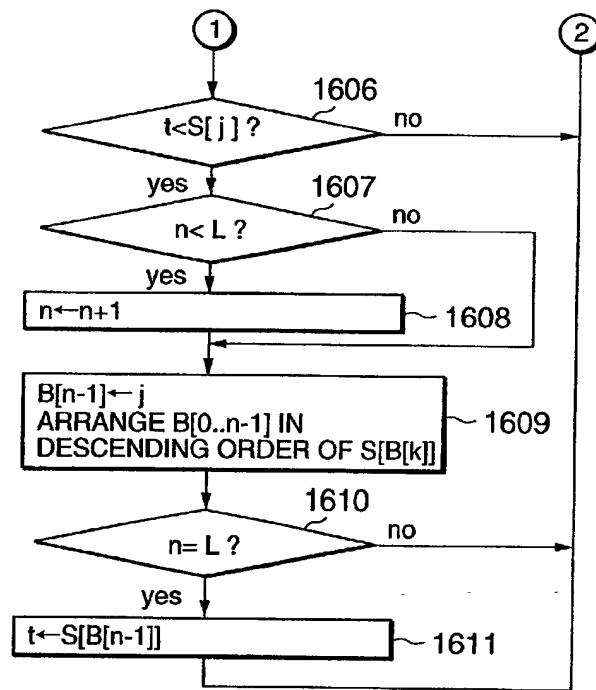




FIG.11B



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FIG. 12A

1	+0.029259	-0.016005	-0.021118	+0.024992	-0.006860	-0.009032	-0.007255	-0.007715	-0.025648	+0.016061
	-0.060584	-0.013593	-0.020985	-0.112403	-0.012045	+0.044741	+0.026761	+0.078339	+0.048166	+0.043434
	+0.100093	+0.009913	+0.085770	+0.101257	+0.072163	-0.066112	+0.069376	-0.020159	+0.051960	-0.129138
	-0.028065	+0.027535	+0.028316	+0.050490	+0.015931	-0.040316	-0.013109	-0.014728	-0.004639	-0.021525
	-0.000471	-0.033506	+0.013866	-0.054646	+0.067350	+0.042063	+0.041963	-0.006444	-0.092581	+0.004488
	+0.004741	+0.009351	+0.038429	-0.042254	-0.027641	-0.068727	+0.037185	-0.003393	-0.040649	+0.013169
	+0.020619	+0.025594	-0.019990	-0.117804	+0.005791	-0.027860	+0.000220	-0.038765	-0.029964	+0.020038
	+0.032435	-0.027518	-0.063942	+0.085381	+0.038776	+0.051395	+0.004047	+0.092011	-0.076222	+0.096729
	-0.018331	+0.115754	-0.038478	+0.131147	-0.074560	+0.080634	-0.186932	+0.024004	+0.047046	-0.075571
	+0.121789	-0.055221	-0.001166	-0.053469	-0.086326	-0.011837	-0.060801	+0.222437	-0.055550	-0.117881
	-0.020700	-0.028172	-0.121642	-0.160389	+0.147645	-0.037681	-0.057998	+0.104025	+0.251415	-0.029438
	+0.030504	-0.048312	-0.072984	-0.088780	+0.041684	+0.127138	+0.061804	+0.064147	-0.016586	+0.024305
	+0.060558	-0.004070	+0.094040	-0.011500	+0.000545	+0.083231	+0.016565	+0.081034	+0.073438	-0.006857
	-0.008995	+0.023537	+0.066849	-0.035310	+0.005572	-0.015236	+0.109983	-0.185597	+0.016643	+0.032632
	-0.075726	-0.110307	+0.038577	+0.038475	-0.042287	+0.082878	+0.035997	-0.009888	+0.081286	+0.063583
	-0.041429	+0.025969	-0.040406	+0.006639	+0.032087	+0.007947	+0.041689	+0.040077	+0.067726	-0.101670
	-0.091183	+0.167914	-0.080320	+0.049351	+0.069409	+0.063139	-0.038358	-0.126212	+0.058109	+0.031847
	-0.014998	-0.022995	+0.054876	+0.033124	-0.065283	-0.058574	+0.049729	-0.046552	+0.042485	-0.006179
	-0.058764	+0.079383	+0.000817	-0.001482	-0.036410	-0.036097	-0.045920	-0.001729	+0.039971	+0.083165
	-0.023112	+0.014492	+0.028403	+0.047480	+0.038502	+0.028348	+0.055128	+0.045340	-0.066148	+0.018156
	-0.008535	-0.042836	+0.006119	-0.037691	+0.018055	+0.035741	-0.023394	+0.012401	-0.070880	+0.010066
	-0.013264	-0.031192	-0.064061	-0.026757	-0.028246	+0.078634	+0.013295	+0.011129	+0.028807	+0.012339
	+0.007173	-0.008856	+0.040397	+0.039853	+0.085247	-0.053102	+0.052307	+0.065223	+0.116747	+0.013464
	-0.004875	+0.019186	+0.024114	-0.056101	-0.024008	+0.061251	-0.043466	-0.017640	+0.081001	-0.014824
	-0.003836	+0.059081	+0.051690	-0.032798	+0.039059	+0.020370	+0.015096	+0.051693	+0.015507	-0.041601
	-0.000192	-0.065087	+0.018487	-0.040415	+0.036173	-0.011809	+0.010862	+0.005944	+0.028534	-0.031335
	+0.023075	+0.033037	+0.063589	+0.014185	+0.006539	+0.002593	-0.023986	-0.038277	-0.009555	-0.018987
	+0.052526	+0.035448	+0.013042	+0.023662	+0.011775	-0.055742	-0.008120	-0.040546	-0.023508	-0.069309
	+0.037886	+0.041494	-0.038487	-0.035241	+0.020432	-0.008060	+0.002984	+0.070241	+0.069379	+0.020206
	+0.032996	+0.047815	+0.046106	+0.001794	+0.035342	-0.003895				

FIG. 12B

2	+0.028972	-0.012757	-0.015597	+0.019727	+0.009386	-0.015593	+0.003627	+0.006288	-0.019184	+0.020306
	-0.057163	-0.017815	-0.026345	-0.102036	+0.002587	+0.037785	+0.029168	+0.075061	+0.043901	+0.040040
	+0.123462	+0.001139	+0.085437	+0.108889	+0.052652	-0.048914	+0.060612	-0.005019	+0.030421	-0.153633
	-0.041444	+0.038908	+0.006823	+0.069954	+0.028216	-0.043207	-0.030092	+0.013753	+0.023770	-0.018313
	+0.008825	-0.036443	+0.001076	-0.067721	+0.046034	+0.030717	+0.017880	-0.036936	-0.093124	-0.000883
	+0.027865	+0.007906	+0.005978	-0.024367	-0.012682	-0.054200	+0.025934	+0.000926	-0.047710	+0.009757
	+0.005940	+0.020855	-0.070890	-0.113381	+0.004988	-0.038150	-0.000456	-0.024836	-0.007560	+0.025912
	+0.009004	-0.053047	-0.079142	+0.085440	+0.027876	+0.051104	+0.016944	+0.082277	-0.071359	+0.107308
	+0.005041	+0.112418	-0.009138	+0.119492	-0.069016	+0.123591	-0.166734	+0.032382	+0.005430	-0.030192
	+0.116327	-0.077304	+0.003280	-0.006984	-0.055858	+0.022018	-0.110375	+0.197565	-0.038060	-0.085170
	-0.065823	-0.021350	-0.104387	-0.147696	+0.111377	-0.028678	-0.097095	+0.064212	+0.255376	-0.011000
	+0.020901	-0.032671	-0.092765	-0.063843	+0.008917	+0.106446	+0.070094	+0.078741	-0.012886	-0.003581
	+0.069363	+0.021164	+0.046900	-0.021002	-0.008879	+0.052981	+0.006370	+0.081378	+0.054328	-0.006424
	-0.006277	+0.013635	+0.117156	-0.037470	+0.014036	-0.048765	+0.093100	-0.147319	+0.028556	-0.017833
	-0.070005	-0.123845	+0.013978	+0.006964	-0.047420	+0.100905	-0.019278	-0.009641	+0.057287	+0.058665
	-0.063796	+0.019097	-0.045014	-0.036129	+0.022014	+0.071405	+0.028573	+0.046653	+0.063911	-0.048555
	-0.070203	+0.205558	-0.051782	+0.102727	+0.042066	+0.028359	-0.021939	-0.082837	+0.064817	+0.017215
	-0.042670	-0.031901	+0.037475	+0.055012	-0.012237	-0.067371	+0.072587	-0.009949	+0.053991	+0.019722
	-0.035742	+0.081726	+0.019732	+0.013624	-0.031871	-0.009025	-0.064237	+0.002162	+0.014326	+0.103617
	-0.048376	+0.034422	-0.019797	+0.041018	+0.089878	+0.072000	+0.030657	+0.040709	-0.071603	+0.005629

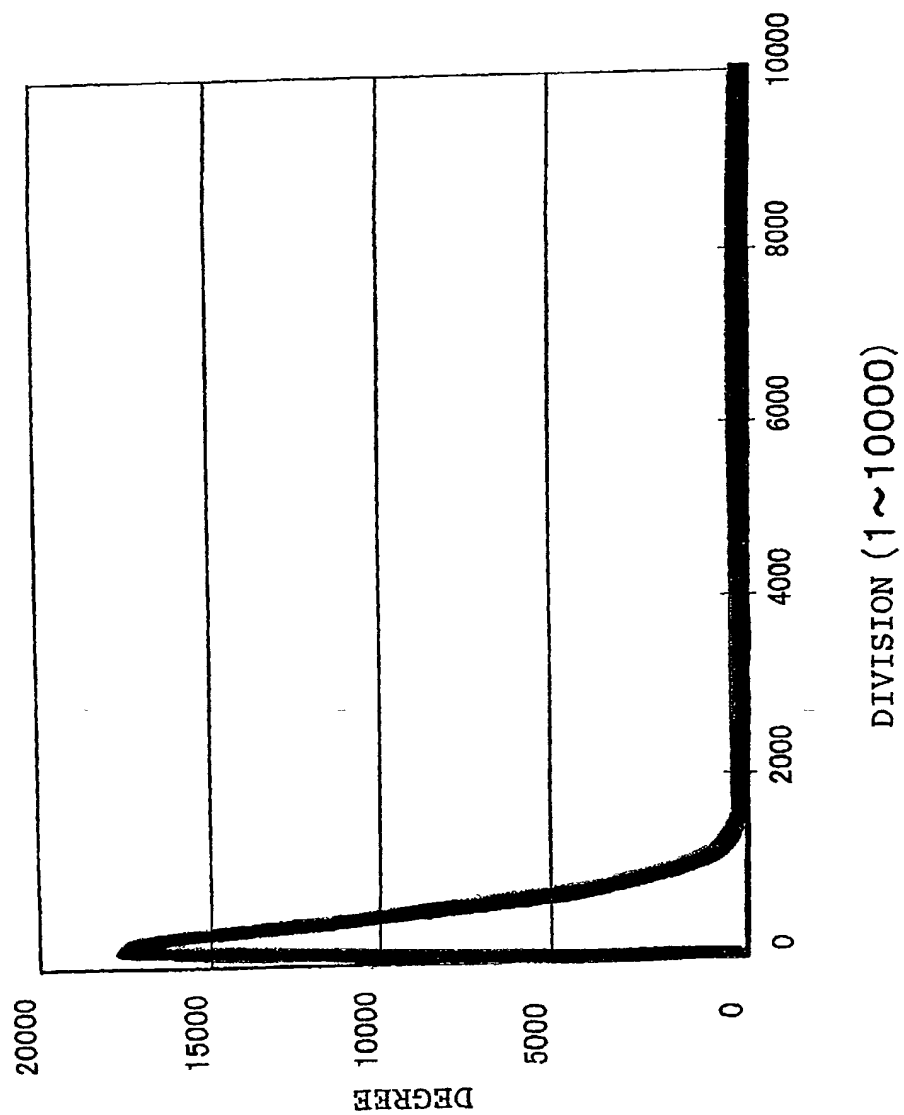
FOREFRONT 09/09/69

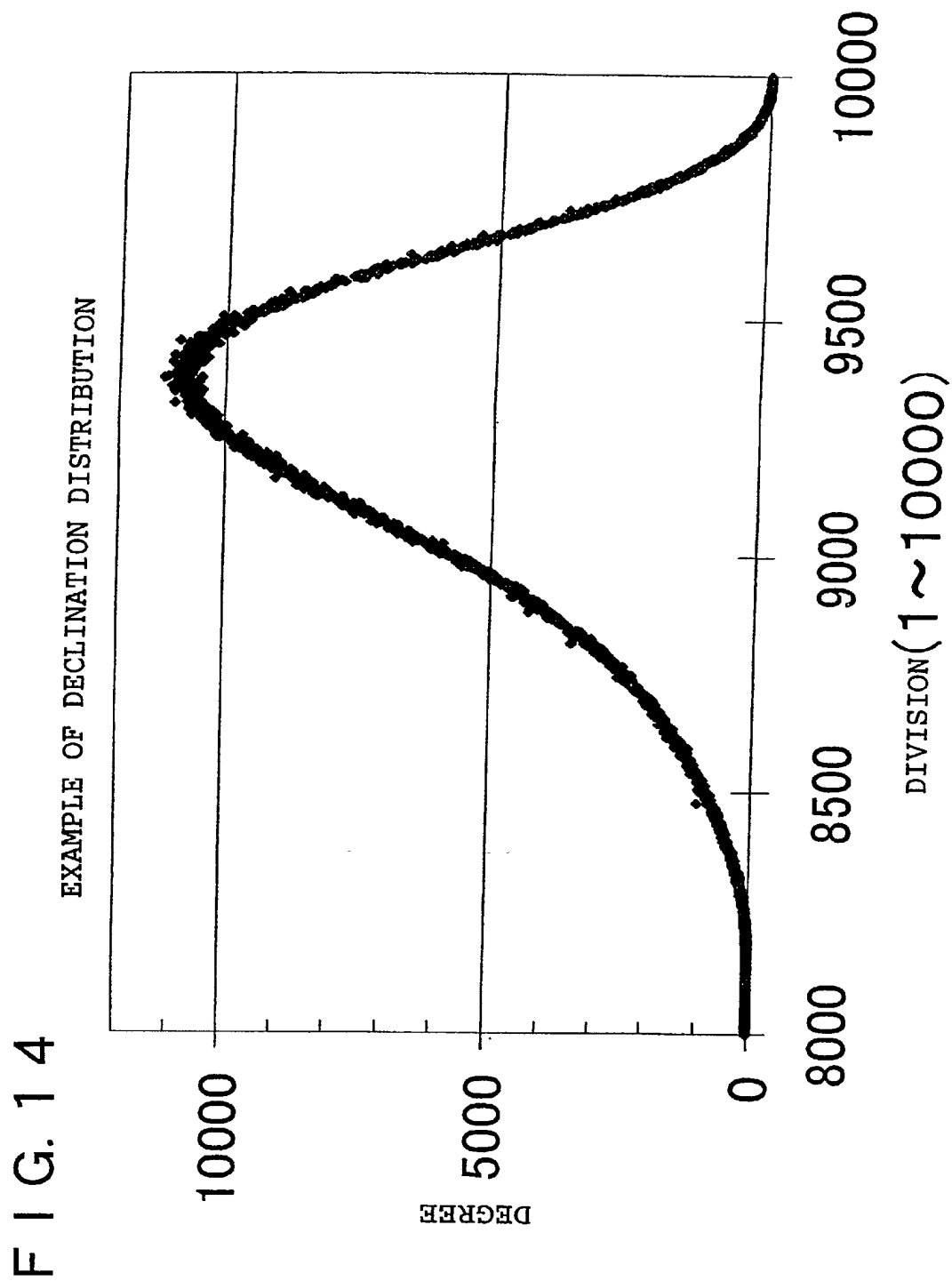
09/913960

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FIG. 13

EXAMPLE OF NORM DISTRIBUTION





FOR200"0900000000

	0	1	2	3	4	5	6	7	8	9
0	0.0000	0.03320	0.04112	0.04617	0.04999	0.05354	0.05687	0.05940	0.06182	0.06416
10	0.06585	0.06805	0.06965	0.07121	0.07275	0.07425	0.07572	0.07716	0.07858	0.07951
20	0.08088	0.08178	0.08312	0.08400	0.08530	0.08616	0.08701	0.08827	0.08910	0.08992
30	0.09073	0.09194	0.09273	0.09352	0.09431	0.09508	0.09585	0.09662	0.09737	0.09813
40	0.09887	0.09961	0.10035	0.10108	0.10180	0.10252	0.10324	0.10395	0.10465	0.10535
50	0.10605	0.10639	0.10708	0.10776	0.10844	0.10912	0.10979	0.11046	0.11079	0.11145
60	0.11211	0.11276	0.11309	0.11374	0.11438	0.11502	0.11566	0.11598	0.11661	0.11724
70	0.11786	0.11849	0.11879	0.11941	0.12003	0.12064	0.12094	0.12155	0.12215	0.12275
80	0.12305	0.12365	0.12424	0.12483	0.12542	0.12571	0.12629	0.12687	0.12745	0.12774
90	0.12831	0.12888	0.12945	0.13002	0.13030	0.13087	0.13143	0.13198	0.13254	0.13282
100	0.13337	0.13392	0.13447	0.13501	0.13556	0.13583	0.13637	0.13690	0.13744	0.13797
110	0.13851	0.13904	0.13956	0.13983	0.14035	0.14087	0.14139	0.14191	0.14243	0.14295
120	0.14346	0.14397	0.14448	0.14499	0.14549	0.14600	0.14650	0.14700	0.14750	0.14800

**F I G. 15B**

130	0.14849	0.14899	0.14948	0.14997	0.15046	0.15095	0.15143	0.15192	0.15240	0.15288
140	0.15336	0.15408	0.15456	0.15503	0.15551	0.15598	0.15645	0.15715	0.15762	0.15808
150	0.15878	0.15924	0.15970	0.16016	0.16085	0.16131	0.16199	0.16244	0.16289	0.16357
160	0.16402	0.16469	0.16513	0.16580	0.16624	0.16690	0.16734	0.16800	0.16866	0.16909
170	0.16974	0.17039	0.17104	0.17147	0.17211	0.17275	0.17338	0.17402	0.17465	0.17507
180	0.17570	0.17633	0.17716	0.17778	0.17840	0.17902	0.17963	0.18024	0.18106	0.18166
190	0.18227	0.18308	0.18368	0.18447	0.18507	0.18586	0.18665	0.18724	0.18803	0.18881
200	0.18958	0.19036	0.19113	0.19190	0.19266	0.19342	0.19437	0.19512	0.19606	0.19681
210	0.19774	0.19867	0.19959	0.20051	0.20143	0.20252	0.20342	0.20450	0.20540	0.20647
220	0.20754	0.20860	0.20983	0.21087	0.21209	0.21330	0.21450	0.21587	0.21706	0.21858
230	0.21992	0.22142	0.22291	0.22438	0.22602	0.22780	0.22957	0.23148	0.23338	0.23557
240	0.23774	0.24005	0.24249	0.24520	0.24818	0.25142	0.25505	0.25919	0.26369	0.26921
250	0.27595	0.28434	0.29600	0.31512	0.35936	0.49100	0.85733			

# FIG. 16

EXAMPLE OF DECLINATION  
DIVISION TABLE  
(4 DIVISIONS)

DIVISION NUMBER	DIVISION BOUNDARY
0	0.8274
1	0.9079
2	0.9301
3	0.9486
4	1.0000



DIVISION	0	1	2	3	4	5	6	7	8	9
b=0, c=0										
0	+9.99999	+0.03142	+0.01968	+0.01436	+0.01008	+0.00750	+0.00536	+0.00355	+0.00220	+0.00100
10	+0.00010	-0.00089	-0.00164	-0.00233	-0.00298	-0.00347	-0.00404	-0.00447	-0.00498	-0.00537
20	-0.00574	-0.00609	-0.00643	-0.00675	-0.00706	-0.00736	-0.00764	-0.00792	-0.00812	-0.00838
30	-0.00857	-0.00881	-0.00904	-0.00921	-0.00938	-0.00959	-0.00975	-0.00996	-0.01010	-0.01025
40	-0.01039	-0.01058	-0.01071	-0.01084	-0.01097	-0.01110	-0.01122	-0.01139	-0.01150	-0.01162
50	-0.01173	-0.01185	-0.01196	-0.01206	-0.01217	-0.01227	-0.01237	-0.01247	-0.01257	-0.01267
60	-0.01276	-0.01286	-0.01292	-0.01301	-0.01310	-0.01319	-0.01327	-0.01336	-0.01344	-0.01352
70	-0.01360	-0.01368	-0.01376	-0.01381	-0.01389	-0.01397	-0.01404	-0.01411	-0.01418	-0.01426
80	-0.01433	-0.01439	-0.01446	-0.01453	-0.01457	-0.01464	-0.01470	-0.01477	-0.01483	-0.01489
90	-0.01496	-0.01502	-0.01508	-0.01514	-0.01519	-0.01525	-0.01531	-0.01536	-0.01542	-0.01547
100	-0.01553	-0.01558	-0.01564	-0.01569	-0.01574	-0.01579	-0.01584	-0.01589	-0.01594	-0.01599
110	-0.01604	-0.01609	-0.01613	-0.01618	-0.01623	-0.01627	-0.01633	-0.01638	-0.01642	-0.01646
120	-0.01651	-0.01656	-0.01661	-0.01665	-0.01669	-0.01673	-0.01678	-0.01682	-0.01686	-0.01692
130	-0.01695	-0.01699	-0.01704	-0.01708	-0.01712	-0.01717	-0.01720	-0.01725	-0.01729	-0.01733
140	-0.01737	-0.01741	-0.01745	-0.01749	-0.01753	-0.01757	-0.01761	-0.01766	-0.01769	-0.01773
150	-0.01777	-0.01780	-0.01784	-0.01788	-0.01792	-0.01796	-0.01800	-0.01804	-0.01808	-0.01812
160	-0.01816	-0.01819	-0.01823	-0.01827	-0.01830	-0.01835	-0.01838	-0.01842	-0.01846	-0.01849
170	-0.01854	-0.01857	-0.01861	-0.01864	-0.01868	-0.01872	-0.01875	-0.01879	-0.01883	-0.01887
180	-0.01891	-0.01894	-0.01898	-0.01902	-0.01906	-0.01909	-0.01913	-0.01917	-0.01920	-0.01924
190	-0.01928	-0.01932	-0.01936	-0.01939	-0.01943	-0.01947	-0.01951	-0.01955	-0.01958	-0.01962
200	-0.01966	-0.01970	-0.01974	-0.01978	-0.01982	-0.01986	-0.01990	-0.01994	-0.01998	-0.02002
210	-0.02006	-0.02010	-0.02015	-0.02019	-0.02023	-0.02027	-0.02032	-0.02036	-0.02040	-0.02045
220	-0.02049	-0.02054	-0.02059	-0.02063	-0.02068	-0.02073	-0.02078	-0.02083	-0.02088	-0.02094
230	-0.02099	-0.02104	-0.02110	-0.02116	-0.02121	-0.02128	-0.02134	-0.02140	-0.02147	-0.02154
240	-0.02161	-0.02169	-0.02177	-0.02185	-0.02194	-0.02204	-0.02215	-0.02227	-0.02241	-0.02256
250	-0.02275	-0.02299	-0.02334	-0.02401	-0.02527					

FIG. 17B

b=0, c=3

0	+9.99999	+0.04126	+0.03220	+0.02771	+0.02395	+0.02162	+0.01966	+0.01798	+0.01672	+0.01559
10	+0.01473	+0.01378	+0.01306	+0.01239	+0.01176	+0.01129	+0.01073	+0.01030	+0.00980	+0.00942
20	+0.00905	+0.00871	+0.00837	+0.00805	+0.00774	+0.00744	+0.00715	+0.00688	+0.00658	+0.00642
30	+0.00623	+0.00598	+0.00575	+0.00558	+0.00541	+0.00519	+0.00503	+0.00482	+0.00457	+0.00452
40	+0.00438	+0.00419	+0.00405	+0.00392	+0.00378	+0.00365	+0.00353	+0.00336	+0.00324	+0.00312
50	+0.00300	+0.00289	+0.00278	+0.00267	+0.00256	+0.00245	+0.00235	+0.00224	+0.00214	+0.00204
60	+0.00194	+0.00185	+0.00178	+0.00169	+0.00160	+0.00151	+0.00142	+0.00133	+0.00124	+0.00116
70	+0.00107	+0.00099	+0.00091	+0.00085	+0.00077	+0.00070	+0.00062	+0.00054	+0.00047	+0.00039
80	+0.00032	+0.00025	+0.00018	+0.00010	+0.00006	-0.00001	-0.00008	-0.00015	-0.00021	-0.00028
90	-0.00034	-0.00040	-0.00047	-0.00053	-0.00059	-0.00065	-0.00071	-0.00077	-0.00083	-0.00089
100	-0.00094	-0.00100	-0.00106	-0.00111	-0.00117	-0.00122	-0.00127	-0.00133	-0.00138	-0.00143
110	-0.00148	-0.00153	-0.00158	-0.00163	-0.00168	-0.00173	-0.00179	-0.00184	-0.00189	-0.00193
120	-0.00198	-0.00204	-0.00208	-0.00213	-0.00217	-0.00221	-0.00227	-0.00231	-0.00236	-0.00241
130	-0.00245	-0.00249	-0.00255	-0.00259	-0.00263	-0.00268	-0.00272	-0.00277	-0.00281	-0.00286
140	-0.00289	-0.00294	-0.00298	-0.00303	-0.00306	-0.00311	-0.00316	-0.00320	-0.00324	-0.00328
150	-0.00333	-0.00336	-0.00340	-0.00345	-0.00349	-0.00353	-0.00357	-0.00361	-0.00366	-0.00370
160	-0.00374	-0.00378	-0.00382	-0.00386	-0.00389	-0.00394	-0.00398	-0.00402	-0.00406	-0.00410
170	-0.00414	-0.00418	-0.00423	-0.00426	-0.00430	-0.00434	-0.00438	-0.00442	-0.00446	-0.00451
180	-0.00455	-0.00458	-0.00463	-0.00467	-0.00470	-0.00474	-0.00478	-0.00483	-0.00486	-0.00491
190	-0.00494	-0.00499	-0.00503	-0.00507	-0.00511	-0.00515	-0.00519	-0.00523	-0.00527	-0.00532
200	-0.00536	-0.00540	-0.00544	-0.00548	-0.00553	-0.00557	-0.00562	-0.00566	-0.00571	-0.00575
210	-0.00579	-0.00584	-0.00589	-0.00593	-0.00598	-0.00602	-0.00607	-0.00612	-0.00617	-0.00622
220	-0.00627	-0.00632	-0.00637	-0.00642	-0.00647	-0.00653	-0.00658	-0.00663	-0.00669	-0.00675
230	-0.00680	-0.00686	-0.00692	-0.00699	-0.00705	-0.00712	-0.00719	-0.00726	-0.00733	-0.00741
240	-0.00749	-0.00757	-0.00766	-0.00775	-0.00786	-0.00797	-0.00808	-0.00821	-0.00837	-0.00854
250	-0.00875	-0.00901	-0.00941	-0.01015	-0.01157					

FIG. 18A

DIVISION	0	1	2	3	4	5	6	7	8	9
b=0, c=0										
0	+9.99999	+0.03665	+0.03356	+0.03363	+0.03460	+0.03613	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=1										
0	+9.99999	+0.03869	+0.03581	+0.03588	+0.03678	+0.03821	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=2										
0	+9.99999	+0.04164	+0.03912	+0.03918	+0.03997	+0.04122	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=3										
0	+9.99999	+0.04476	+0.04275	+0.04280	+0.04344	+0.04444	+9.99999	+9.99999	+9.99999	+9.99999
b=1, c=0										
60	+9.99999	+9.99999	+9.99999	+0.11286	+0.11079	+0.10939	+0.10827	+0.10731	+0.10648	+0.10573
70	+0.10506	+0.10444	+0.10387	+0.10335	+0.10302	+0.10255	+0.10212	+0.10171	+0.10133	+0.10097
80	+0.10064	+0.10032	+0.10003	+0.09975	+0.09949	+0.09932	+0.09909	+0.09887	+0.09866	+0.09846
90	+0.09828	+0.09811	+0.09795	+0.09781	+0.09767	+0.09754	+0.09742	+0.09731	+0.09722	+0.09712
100	+0.09704	+0.09697	+0.09690	+0.09685	+0.09679	+0.09675	+0.09671	+0.09669	+0.09666	+0.09665
110	+0.09663	+0.09663	+0.09664	+0.09665	+0.09666	+0.09668	+0.09671	+0.09675	+0.09679	+0.09684
120	+0.09689	+0.09694	+0.09703	+0.09709	+0.09717	+0.09725	+0.09733	+0.09745	+0.09754	+0.09764
130	+0.09778	+0.09789	+0.09800	+0.09816	+0.09829	+0.09842	+0.09860	+0.09875	+0.09894	+0.09910
140	+0.09931	+0.09947	+0.09970	+0.09988	+0.10012	+0.10031	+0.10057	+0.10084	+0.10112	+0.10134
150	+0.10163	+0.10194	+0.10218	+0.10252	+0.10286	+0.10322	+0.10359	+0.10397	+0.10438	+0.10480
160	+0.10524	+0.10571	+0.10620	+0.10672	+0.10727	+0.10787	+0.10868	+0.10941	+0.11023	+0.11149
170	+0.11287	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999

**F I G. 18 B**

[illegible]

FIG. 18C

[illegible]